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UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.

1391-CIP-00

Total Pages in this Submission

31

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09/11/00

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TO THE ASSISTANT COMMISSIONER FOR PATENTSBox Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

DOLL'S CLOTHING AND PLAY SET

and invented by:

Casey William Norman and Torquil Patrick Alexander Norman

If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information:

Continuation Divisional Continuation-in-part (CIP) of prior application No.: 09/065,119

Which is a:

Continuation Divisional Continuation-in-part (CIP) of prior application No.: _____

Which is a:

Continuation Divisional Continuation-in-part (CIP) of prior application No.: _____

Enclosed are:

Application Elements

1. Filing fee as calculated and transmitted as described below
2. Specification having 16 pages and including the following:
 - a. Descriptive Title of the Invention
 - b. Cross References to Related Applications (*if applicable*)
 - c. Statement Regarding Federally-sponsored Research/Development (*if applicable*)
 - d. Reference to Microfiche Appendix (*if applicable*)
 - e. Background of the Invention
 - f. Brief Summary of the Invention
 - g. Brief Description of the Drawings (*if drawings filed*)
 - h. Detailed Description
 - i. Claim(s) as Classified Below
 - j. Abstract of the Disclosure

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31

Application Elements (Continued)

3. Drawing(s) (*when necessary as prescribed by 35 USC 113*)
a. Formal b. Informal Number of Sheets _____ 8
4. Oath or Declaration
a. Newly executed (*original or copy*) Unexecuted
b. Copy from a prior application (37 CFR 1.63(d)) (*for continuation/divisional application only*)
c. With Power of Attorney Without Power of Attorney
d. DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application,
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. Incorporation By Reference (*usable if Box 4b is checked*)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied
under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby
incorporated by reference therein.
6. Computer Program in Microfiche
7. Genetic Sequence Submission (*if applicable, all must be included*)
 - a. Paper Copy
 - b. Computer Readable Copy
 - c. Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. Assignment Papers (*cover sheet & documents*)
9. 37 CFR 3.73(b) Statement (*when there is an assignee*)
10. English Translation Document (*if applicable*)
11. Information Disclosure Statement/PTO-1449 Copies of IDS Citations
12. Preliminary Amendment
13. Acknowledgment postcard
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Accompanying Application Parts (Continued)

15. Certified Copy of Priority Document(s) (*if foreign priority is claimed*)
16. Small Entity Statement(s) - Specify Number of Statements Submitted: _____
17. Additional Enclosures (*please identify below*):


Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)

18. Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

Warning

An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.

**UTILITY PATENT APPLICATION TRANSMITTAL
(Small Entity)**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

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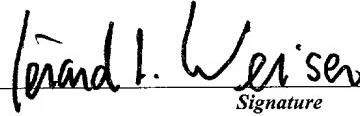
Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	19	- 20 =	0	x \$9.00	\$0.00
Indep. Claims	4	- 3 =	1	x \$40.00	\$40.00
Multiple Dependent Claims (check if applicable)	<input type="checkbox"/>				\$0.00
					BASIC FEE \$355.00
OTHER FEE (specify purpose)					\$0.00
					TOTAL FILING FEE \$395.00

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- The Commissioner is hereby authorized to charge and credit Deposit Account No. **13-3405** as described below. A duplicate copy of this sheet is enclosed.
- Charge the amount of **\$395.00** as filing fee.
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Dated: November 13, 2000


Gerard J. Weiser
Signature
GERARD J. WEISER, 19,763

cc:

Attorney Docket No. 1391-CIP-00
File No. 282547-001

APPLICATION FOR UNITED STATES LETTERS PATENT

FOR

DOLL'S CLOTHING AND PLAY SET

Inventors: Casey William Norman
Torquil Patrick Alexander Norman

Cross References to Related Application

This application is a divisional of application serial number 09/065,119, filed April 23, 1998, titled DOLL'S CLOTHING. This application is a continuation-in-part of copending application serial number 09/065,119 filed April 23, 1998, titled DOLL'S CLOTHING and bearing Attorney Docket No. 1020.001, the entire disclosure including drawings of the copending application is incorporated herein by reference.

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates to a doll's garment, a method for the manufacture thereof and to a play set comprising a doll and at least one garment therefor.

Description of the Related Art

Traditionally, doll's clothes are stitched from fabric. This is impracticable for making clothes for dolls smaller than about 4 cm in height, due to the difficulty experienced in forming the stitches. Even for larger dolls, stitching may be difficult for small garment features.

Additionally, fabric clothing may not be as elastic as alternative materials, causing difficulties in donning garments on dolls, and therefore, limiting the degree to which a garment may be shaped to the doll form. Furthermore, fabric clothing is less durable than alternative materials.

Flexible or elastic articles not designed for doll clothing, generally have limitations which render them unsuitable for doll clothing. For example, U.S. Patent No. 2,283,238 discloses a method of manufacturing sanitary elastic sheaths by a dipping process. The sheaths are comprised of bags having elastic bands attached at one end and may be used for items such as finger cots, thumb guards, rubber gloves and breast nipple sheaths. The item itself is not molded

to fit to the shape of the form which it covers and requires the elastic band to secure the sheath in place. The bag-like nature of the articles does not allow for openings for arms and legs as is necessary in doll's clothing.

A molded latex article is disclosed in U.S. Patent No. 3,206,533 for use as a girdle. The article is formed with a mesh-like network of multiple small holes to permit free breathing of the skin on which it is placed. An item such as this would not be suitable for doll's clothing primarily because of its perforated nature.

U.S. Patent No. 4,297,153 discloses a method for making doll clothing and doll house accessories by molding a plastic film and thereafter attaching decorative elements. The elements are attached by moistening the film to which the element is to be attached. Providing detail in this manner may be difficult and time consuming, especially for small features. It also introduces a weakness in the article diminishing durability. Additionally, the method may limit the sizes and types of detail which may be added to the articles.

Various proposals have therefore been advanced for making articles simulating doll's clothing from alternative materials. For example, U.S. Patent No. 4,414,774 describes fabricating such articles from plastic materials. Due to their degree of rigidity, the articles lack realism and appear bulky. In addition, once the doll is clothed, its limbs cannot be moved so that the articles are unsuitable for dolls with articulated limbs.

U.S. Patent No. 4,763,940 discloses a finger mounted document handling aid. The aid is tubular and comprises a plurality of generally parallel longitudinal cuts to permit enhanced flexibility. Such an article would be difficult to adapt to realistic-looking doll's clothing because of the longitudinal cuts required for adequate flexibility. Furthermore, without the cuts the article may not be flexible enough to bend at joints of an articulated doll.

Therefore, there is a need for doll's clothing that can be realistically dressed on, adapted and fitted to the doll. Additionally, there is a need for garments that have sufficient flexibility to bend where the doll bends. Furthermore, there is a need for doll's garments made of a material suitable as to appearance for doll's clothing, and that may easily be manipulated by children.

- 5 Furthermore, it is desirable to manufacture doll's clothing with these characteristics in a size appealing to and fun for a wide age range of children.

SUMMARY OF THE INVENTION

A doll's garment is provided that is durable and easily fitted to a doll and which may be more easily manufactured than a fabric garment. The garment may be an article of clothing or a skin that transforms the character of the doll. Both realistic and fanciful garment designs are possible according to embodiments of the invention. Also included is a play set comprising a doll and at least one garment.

One embodiment of the invention is a doll's seamless garment which is adapted to be dressed, fitted and be removed in a life-like manner from a doll having a height in the range of 15 above 8 cm (3.1 in) to about 30 cm (11.8 in), wherein the doll is bendable at least in part. The garment is molded from an elastomeric material or rubber having an average modulus of elasticity of less than 1MN/m². The garment wall thickness is preferably in the range of about 1mm (.039 in) to about 3mm (.118 in). Optionally, the garment comprises at least one integrally molded feature.

20 In another embodiment the garment is a skin. The skin is adapted to be dressed, fitted and removed from a doll to transform the doll into a different character or object. The skin is molded in at least one part from an elastomeric material. The elastomeric material selected from

the group consisting of one of the following: ethylene vinyl acetate copolymer, styrene-butadiene-styrene, styrene-isoprene-styrene, styrene-diene, styrene-isoprene-butylene block copolymers containing mineral oil, branched styrene copolymer, styrene butadiene rubber, styrene-butadiene triblock rubber, styrene-isoprene-styrene linear block polymer, styrene-butadiene radial block copolymer, butadiene-styrene copolymer rubber and equivalent elastomeric materials. Preferably, the garment has a wall thickness from 1 to 3mm and preferably the material has an average modulus of elasticity of less than 1MN/m².

Yet another embodiment of the invention is a play set comprising, in cooperative combination, a doll donned and fitted with a garment as described above.

The garments of the invention are constructed of materials unlike those found in prior art doll clothing allowing sufficient flexibility to bend where the doll bends. The garments can be fitted or removed in a lifelike manner on any size dolls and are easily manipulated by even young children. Additionally, an articulated doll maintains its flexibility when clothed in the garment.

The invention will now be described, by way of example only, with reference to the accompanying drawings.

DETAILED DESCRIPTION OF THE DRAWINGS

FIGS. 1A - 1G depict a doll's garments according to embodiments of the invention.

FIGS. 2A -2F depict a doll according to an embodiment of the invention.

FIGS. 3A-3F depict the doll of FIGS. 2A-2F dressed in the garments of FIGS. 1A-1G

respectively.

FIGS. 4A-4D depict a male doll with a removable head according to an embodiment of the invention and the male doll fitted in garments according to an embodiment of the invention.

FIGS. 5A- 5E depict garments having slits according to an embodiment of the invention and the doll of FIGS. 2A-2F fitted in garments having slits.

FIGS. 6A-6C depict a doll and garment according to embodiments of the invention and the doll fitted in the garment.

5 FIGS. 7A-7C depict a doll and skin according to an embodiment of the invention and a doll fitted with the skin.

FIGS. 8A-8C depict a doll and skin according to another embodiment of the invention and a doll fitted with the skin.

DETAILED DESCRIPTION OF THE INVENTION

10 The present invention relates to an interchangeable doll's garment made preferably from an elastomeric material. The material may be selected from ethylene vinyl acetate copolymer (EVA) and any of the polymers sold under the registered trademark "Kraton" by Shell Chemical Co. (such as optionally hydrogenated) styrene-butadiene-styrene, styrene-isoprene-styrene, styrene-diene, styrene-isoprene and styrene-butadiene block copolymers, styrene-ethylene-
15 butylene block copolymer containing mineral oil, branched styrene copolymer, styrene-butadiene rubber, styrene-butadiene triblock rubber, styrene-isoprene-styrene linear block polymer, styrene-butadiene radial block copolymer, butadiene-styrene-copolymer rubber, synthetic rubber) or equivalent materials.

Preferably, the average modulus of elasticity of the material is less than about 1 MNm^{-2} .

20 More preferably, the 100% modulus of elasticity, measured at a standard test speed of about 500mm/min, is between about 120 and 350 kNm^{-2} , and still more preferably between 240 and 280 kNm^{-2} . The 300% modulus of elasticity may lie between about 440 and 490 kNm^{-2} . Such

values provide a material from which garments with sufficient realism and desired features can be molded, whilst avoiding increased difficulty molding detail and in removal of the molded garments from the mold, which the inventors have found to occur with highly elastic polymers. The nature of the elastomeric material allows a child to manipulate the garments to dress and
5 undress the doll with minimum of frustration.

The wall thickness of the garment is preferably from about 1mm (.039 in) to about 3mm (.118 in). However, garments may have wall thicknesses of any dimension that allow the garment to be dressed on, fitted to and removed from the doll or over other garments. The material elasticity and garment wall thickness provide durability to enable garments to be donned on and removed from a doll repeatedly. Desired realism and flexibility may also be achieved with materials having these properties. Garments formed from materials having these properties may be manipulated by young children with minimum frustration that accompanies use of some dolls' clothing, even when fitted to dolls of about 4 to 32cm.

One embodiment of the present invention provides a method of manufacturing a doll's
15 garment, comprising molding an elastomeric material or rubber. Preferably, the garment is injection molded, but it may alternatively be dip molded. However, any method by which elastomeric or rubber material having the parameters described herein can be formed into the garments described herein is within the spirit and scope of the invention.

Another embodiment of the invention provides a play set comprising a doll having at
20 least one articulated body part and at least one garment for the doll, the garment(s) being made from an elastomeric material or rubber. The play set may also include garments that are clipped to the doll or to other garments.

The doll of the invention is preferably bendable at least in part by being articulated at isolated locations or by having continuously flexible parts. The degree of movement may go beyond that which is realistic or natural, so that a child may dress and undress the doll easily. Doll parts may be positioned and repositioned, with and without garments provided thereon.

5 An articulated doll may be jointed at the shoulders, hips, waist, neck, head, ankles, wrists, elbows and/or knees. It is also possible for the doll to be articulated at points where joints are not naturally located to provide additional flexibility to facilitate dressing and undressing the doll. The junctions of articulated parts may be exposed or, for a more realistic appearance, they may have a continuous coating that conceals the joint while allowing desired movement. Any combination of articulated parts is within the spirit and scope of the invention.

10 A continuously flexible doll may be continuously flexible throughout or only have some continuously flexible portions. A continuously flexible portion is a bendable portion in which there is no definable joint. Such flexibility may be achieved by utilization of a material having the desired bendability or by a combination of flexible materials. For example, the doll may comprise a flexible elastomeric material or rubber body having metal wire therein to provide durability and/or to enable the doll to maintain desired positions. The wire or a wire-like material may be throughout the body or within only a portion of the body. In one embodiment the doll comprises a combination of continuously flexible portions and articulated parts. For example, the doll may have continuously bendable arms and legs, and a head articulated at the

15 neck.

20 The clothing may be designed so that it is possible to turn the particular garment inside-out. This has the advantage of still being able to be donned, but with new colors and/or

decoration and/or detailing. Such a feature would be applicable to, for instance, hats, jackets and pants. It also could be applied to the other coverings discussed, such as second skins.

To the elastic clothing there can be added fabric, by stitching the fabric on to the elastic portion. The elastic molded clothing can be decorated with actual frills, and other fabric portions
5 to make new clothing designs.

A particular embodiment of the invention includes the doll having one or more body parts removable at the point of articulation. FIG 4D depicts a male doll with a removable head.

Removable body parts allow garments of many design dimensions to be easily dressed on and removed from the doll, particularly for smaller children. For example a garment having a neckline diameter smaller than or substantially similar to the head diameter will be more easily fitted on the doll if the head is removed. Removable arms, legs, feet and hands will similarly facilitate dressing and undressing of the doll.
10

To further facilitate dressing of and removing the garment from the doll an embodiment of the invention includes garments having one or more slits as depicted in FIGS. 5B and 5D. The
15 slit(s) is preferably in the back of the garment. However, slits may be placed anywhere in the garment that would facilitate dressing and undressing of the doll. A slit having a length in the range of about 10% to about 50% of the length of the garment is preferred. Lengths shorter than this may not adequately enhance the ease by which the doll may be dressed or undressed. Slits longer than this may cause the garment to gape open. Preferably the slit(s) has a closed end
20 forming a radius to prevent tearing. However, any reinforcing method may be used that does not adversely limit the flexibility of the garment. FIGS. 5A and 5C depict the doll of FIGS. 2A-2F fitted in garments having slits.

It should be understood however that these embodiments do not imply that all garments having small dimensions, such as neckline or cuff diameters, cannot be fitted on the doll without removal of a body part or incorporation of a slit in the garment.

Parent Application Serial No. 09/065,119 provides a preferred embodiment of garments adapted to dolls having a size of less than 8 cm (3.1 in). However, the doll may be any size but is likely to be found most appealing to children when in the range of about preferably 4 cm (1.6 in) to about 30 cm (11.8 in). Dolls in the range of above 8 cm (3.1 in) to about 32cm (12.6 in) may be easiest for small children to dress and undress. Dolls in the range of about 29 cm (11.4 in) to about 32 cm (12.6 in) are generally suitable for imaginative play involving repeatedly changing garments. Dolls of the following approximate height/width ratios are suitable for children of a wide age range: for female dolls 4.3:1, 4.1:1, 3.9:1 and 3.8:1 wherein, for example, the dolls may have heights of about 29.2cm (11.5 in), 9.5cm (3.7 in), 18cm (7.1 in) and 4.6cm (1.8 in), respectively; for male dolls about 3:1, 3.1:1, and 2.9:1 wherein, for example, the dolls may have heights of 7.2cm (2.8 in), 8.5cm (3.3in) and 13cm (5.1 in), respectively. These proportions and/or sizes are generally more realistic than popular dolls on the market today. Additionally, dolls of these proportions and/or sizes with flexible garments adapted to be dressed thereon, fitted thereto and removed therefrom are not generally seen in today's market and will be a fun change for children. All embodiments of the invention are applicable to dolls of any shape and size, and further to male, female, human, nonhuman and fanciful figures. Fanciful figures may include, but are not limited to, superheros, monsters, robots and cartoon characters. Dolls may be formed having sculpted hair or rooted hair. Although rooted hair requires additional manufacturing process steps, it provides a more realistic doll.

FIGS. 1A to 1G show various injection-molded garments for a doll approximately 4cm in height. However, the garments may be fabricated for use with dolls of any size. More specifically, FIG. 1A shows a dress, FIG. 1B a pair of dungarees, FIG. 1C a gown, FIG. 1D a jacket and a skirt, FIG. 1E a vest and skirt, FIG. 1F a jacket and a pair of slacks and FIG. 1G a hat and a coat. The garments may further include T-shirts, swim wear, pants, pajamas, suits, shirts, coats, shorts, cloaks, capes, uniforms, hats, shoes, helmets, armor and scarfs. Garments may also be those from any of the following categories: athletic wear, evening wear, uniforms, casual wear, sleep wear, business attire, school wear or costumes. The garments may be styled for a particular type or character of doll. For example, a film star, recording star or teenage doll may have garments reflecting such identities. FIGS. 6A-6C depict a glamorous doll and a garment designed to reflect that which a glamorous character, such as a film star would wear. Garments may comprise a combination of two or more articles which would typically exist as separate articles. For example, as shown in FIG. 4B, a sock and shoe may be molding to form a single garment.

The garments are molded from elastomeric materials or rubber and are therefore noticeably flexible and elastic, which provides a high degree of realism as compared with prior art garment-simulating articles. The realism may be further enhanced by decorating the garment using paint, varnish, glitter, or other coatings compatible with the elastomeric or rubber material. Some examples of other coatings include color-change or glow-in-the-dark coatings. In a particular example, the garments are molded from clear Kraton and painted with a paint of which the modulus of elasticity is compatible with that of the Kraton. Additionally, details may be provided by the molding process. Integrally molded details provide greater garment durability compared to garments having details applied after their formation. Attached features may

separate from a garment, especially if the garment is stretched as would be the case when donning an elastic-type garment on a doll. Integrally molded details stretch with the garment and therefore, will not undergo stress that may lead to separation. Details may include but are not limited to, items found on clothing such as belts, buttons and collars, animal features such as 5 horns or beaks, or robot components such as lights and buttons. It will be understood by those skilled in the art that molding processes will allow nearly any type of detail imaginable to be molded integrally with the garment.

FIGS. 2A and 2F show a three-dimensional doll which is approximately 4cm in height. The doll is assembled from injection-molded plastics components and is articulated at the 10 shoulders, hips and knees.

FIGS. 3A to 3F show the doll of FIGS. 2A to 2F after fitting of the garments shown in FIGS. 1A and 1F respectively. Due to their elasticity, the garments can be fitted in a life-like way, i.e., jackets are donned “arms first” and dresses, trousers and skirts are stepped into. However, upper garments may be more easily donned over the feet due to the diameter of the 15 doll’s head and the usual positioning of the arms. Once clothed, the doll’s limbs can still be moved. The garments are easily interchanged, even by younger children. One garment can be donned over another, for example a jacket over a dress or a vest over a shirt. Garments not generally worn on top of one another may be layered to provide a child with additional fun and creative opportunities. For example, athletic wear may be donned under formal wear or vice-versa. 20

In addition, the term “garment” as used in this specification should be understood to include any flexible article which can be fitted to the external surface of a doll or on top of other garments, including second skins. Skins are garments that transform a doll into a different

character or into an object. For example, skins may resemble other animals, creatures or objects such as rocks, flames, bones or the like.

FIGS. 7A-7C and FIGS. 8A-8C depict human dolls and garments in the form of skins to transform the dolls into a robot and a werewolf character, respectively. Both the doll and the skin 5 may have any real or imaginary character. For example, an animal doll may be fitted with a human skin or superhero skin or a human doll may be fitted with an animal skin or a skin depicting an object. Skins may also be donned one on top of another or over or under clothing-like garments. For example, pants and tops may be placed over an animal skin, an animal or object skin may be placed over a clothed doll, or a human doll may be dressed with two or more skins. The possibilities are numerous and promote a child's use of his/her imagination and allow 10 a child to delight in the surprise of exposing a hidden form, outfit, character or object. The skins may be designed to cover some or all of the doll, depending on the transformation desired. Skins may conform to a specific doll shape or may be of ample size and shape to fit a variety of doll forms.

15 While the invention has been described in what is presently considered to be preferred embodiments, many variations and modifications will become apparent to those skilled in the art. Accordingly, it is intended that the invention not be limited to specific illustrative embodiments but be interpreted within the full spirit and scope of the appended claims.

What is claimed is:

1. A doll's skin which is adapted to be dressed, fitted to and removed from a doll to transform the doll into a different character or object, and wherein the skin is molded in at least one part from an elastomeric material.

5 2. The skin of claim 1 wherein the skin is seamless.

3. The skin of claim 1 wherein the elastomeric material is a synthetic polymer.

4. The skin of claim 3 which is a copolymer.

5. The garment of claim 4 wherein the copolymer is selected from the group

10 consisting of one of the following: ethylene vinyl acetate copolymer, styrene-butadiene-styrene, styrene-isoprene-styrene, styrene-diene, styrene-isoprene-butylene block copolymers containing mineral oil, branched styrene copolymer, styrene butadiene, styrene-butadiene triblock, styrene-isoprene-styrene linear block polymer, styrene-butadiene radial block copolymer, butadiene-styrene copolymer.

15 6. The skin of claim 1 wherein the material has a 100% modulus of elasticity

between about 120 and 350KN/m².

7. The skin of claim 2 wherein the garment is adapted in size to be fitted to and removed from the doll having a height of less than about 8cm.

8. The skin of claim 2 wherein the garment is adapted in size to be fitted to and removed from the doll having a height of above 8cm to about 20 cm.

20 9. The skin of claim 1 in a form selected from the group consisting of animal, human, monster, super hero, robot, and cartoon character.

10. A doll's seamless garment which is adapted to be dressed, fitted and removed in a life-like manner from a doll having a height in the range of above 8cm to about 20 cm.

11. The seamless garment of claim 10 wherein the material is a synthetic polymer.
12. The garment of claim 11 further comprising at least one integrally molded detail.
13. The garment of claim 11 wherein the material has a 100% modulus of elasticity between 120 and 350KN/m².

5 14. The garment of claim 13 wherein the material has a 100% modulus of elasticity between 240 and 280KN/m²..

- 10 15. A play set comprising, in cooperative combination, a doll having a height in the range of 8 cm to about 20 cm, donned and fitted with a seamless synthetic polymer garment which removably encloses around at least a part of the doll and is adapted to be removed, dressed and refitted again to the doll in a life-like manner.

15 16. The play set of claim 15 wherein the doll is articulated at one or more of the following: shoulders, elbows, knees, wrists, ankles, neck, head and hips.

17. The play set of claim 16 wherein the garment material has a 100% modulus of elasticity between about 120 and 350KN/m².

18. The play set of claim 17 wherein the garment material has a 100% modulus of elasticity between about 240 and 280KN/m².

19. A method of manufacturing a doll's garment according to claim 10 comprising molding the garment from an elastomeric material or rubber.

ABSTRACT

A doll's seamless garment which is adapted to be dressed, fitted and be removed in a life-like manner from a doll having a height in the range of above 8cm to about 32cm, wherein the doll is bendable at least in part. The garment is molded from an elastomeric material or rubber having an average modulus of elasticity of less than 1MN/m^2 . The garment wall thickness is preferably in the range of about 1mm to about 3mm. Further disclosed is a skin. The skin is adapted to be dressed, fitted and removed from a doll to transform the doll into a different character or object, and wherein the skin is molded in at least one part from an elastomeric material. The skin may have a wall thickness from 1 to 3mm, the material having an average modulus of elasticity of less than 1MN/m^2 . The garments are easily manipulated by children and provide opportunities for creative play. Still further disclosed is a play set comprising, in cooperative combination, a doll donned and fitted with a garment.

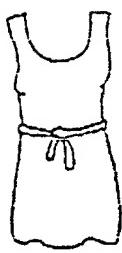


Fig. 1a



Fig. 1b



Fig. 1c

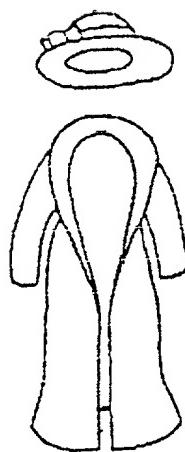


Fig. 1g

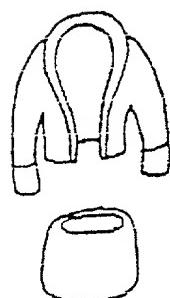


Fig. 1d

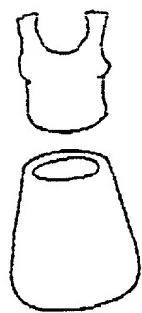


Fig. 1e

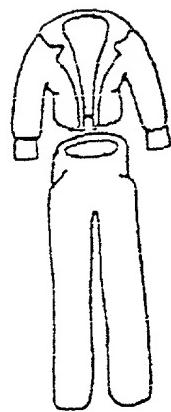


Fig. 1f

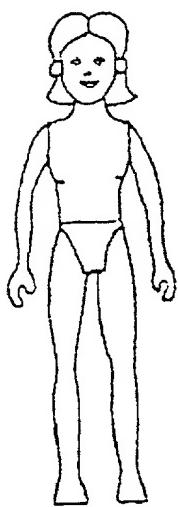


Fig. 2a

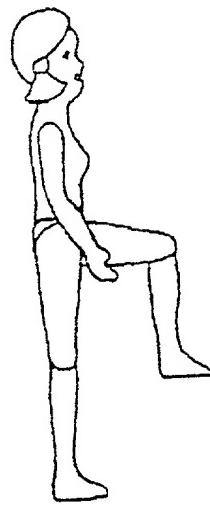


Fig. 2b



Fig. 2c

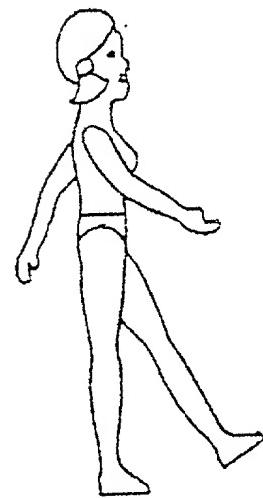


Fig. 2d

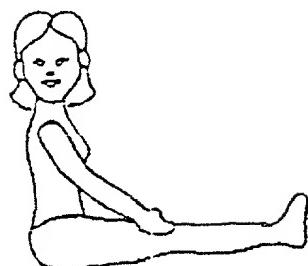


Fig. 2e

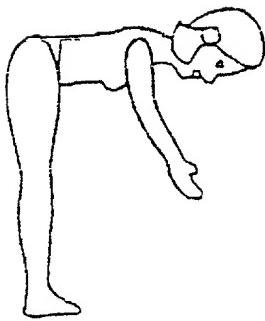


Fig. 2f

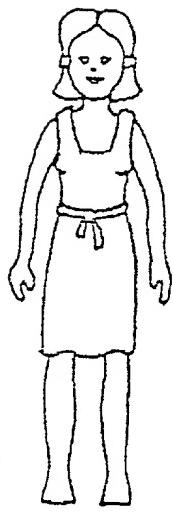


Fig. 3a

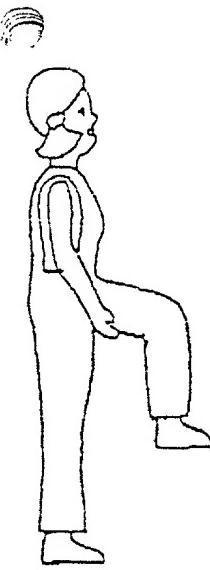


Fig. 3b



Fig. 3c

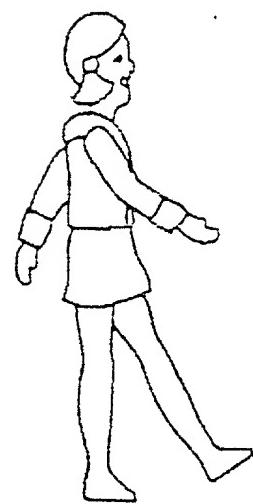


Fig. 3d

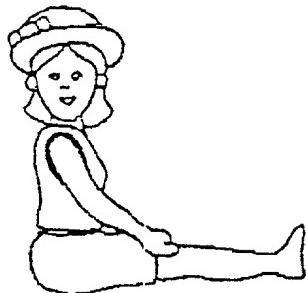


Fig. 3e

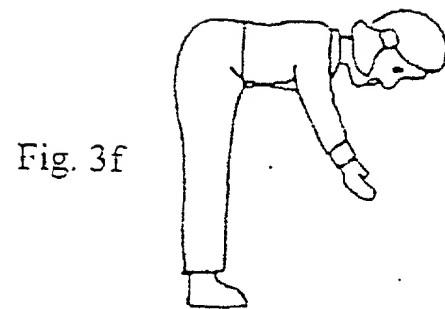
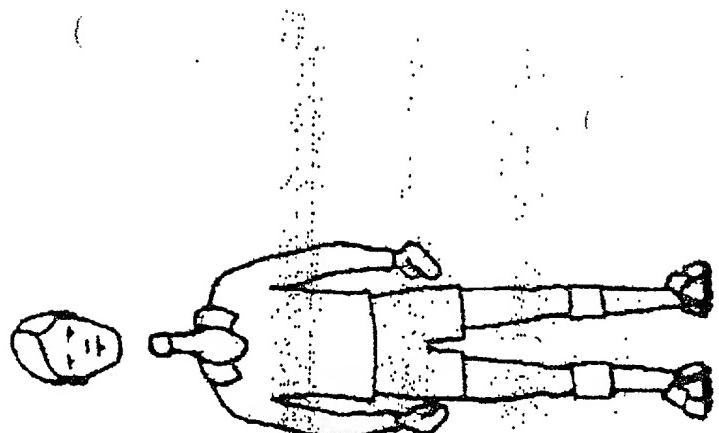
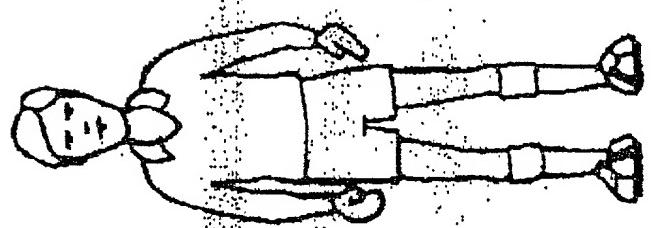


Fig. 3f

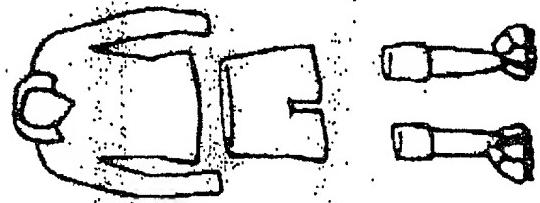
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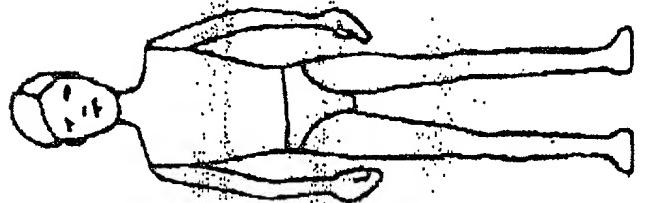
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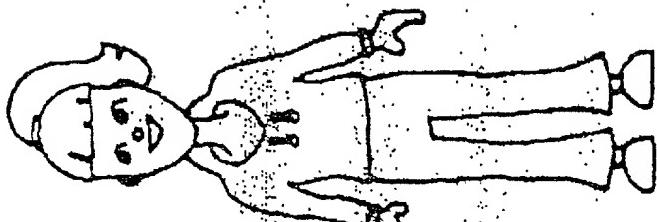
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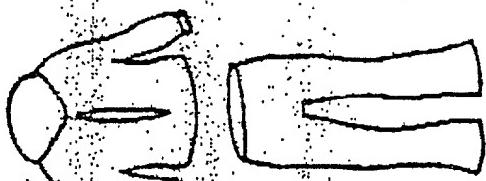
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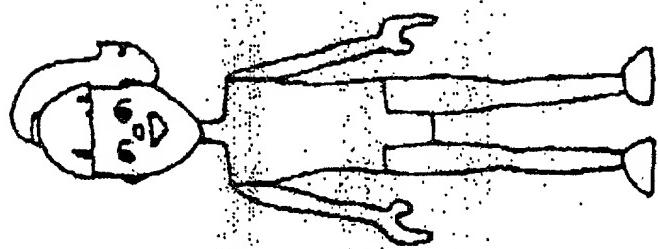
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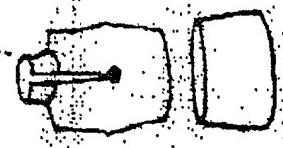
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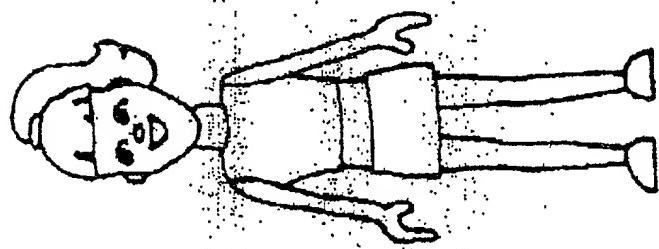
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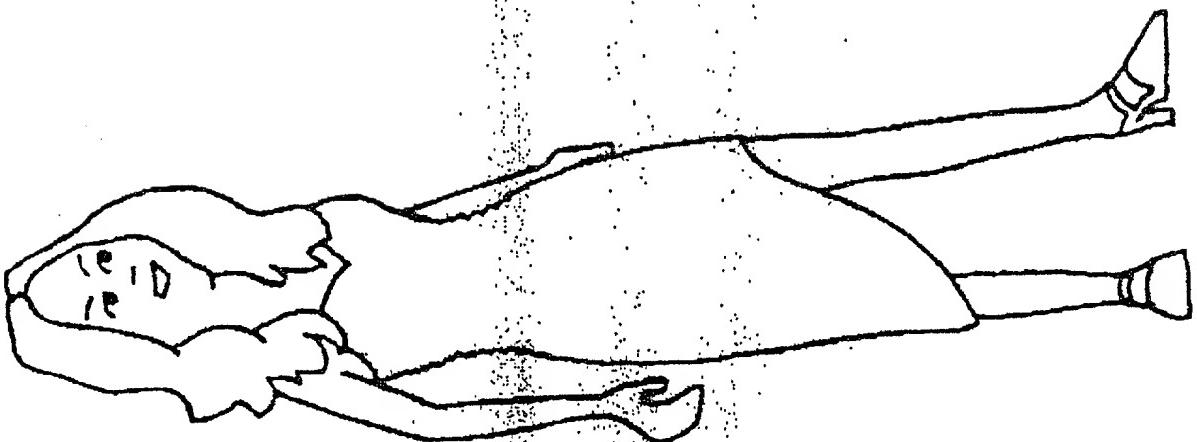


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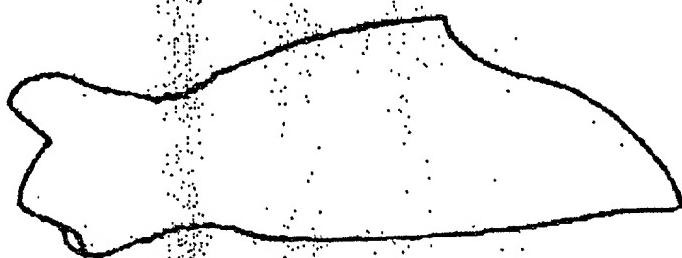


5A





6C

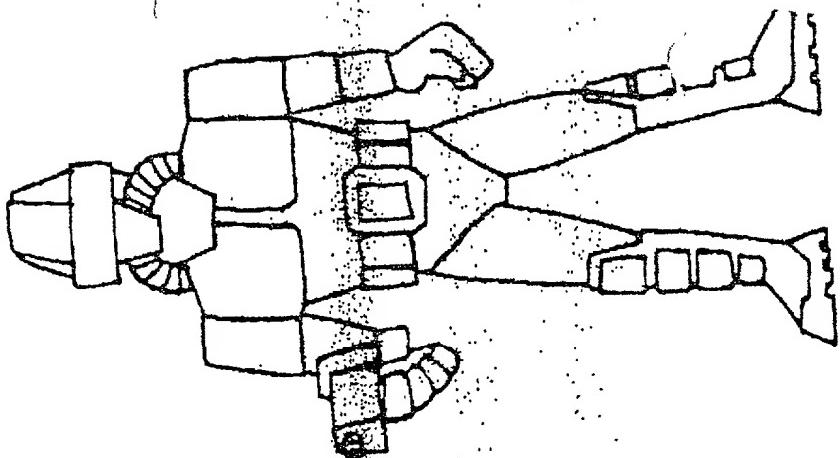


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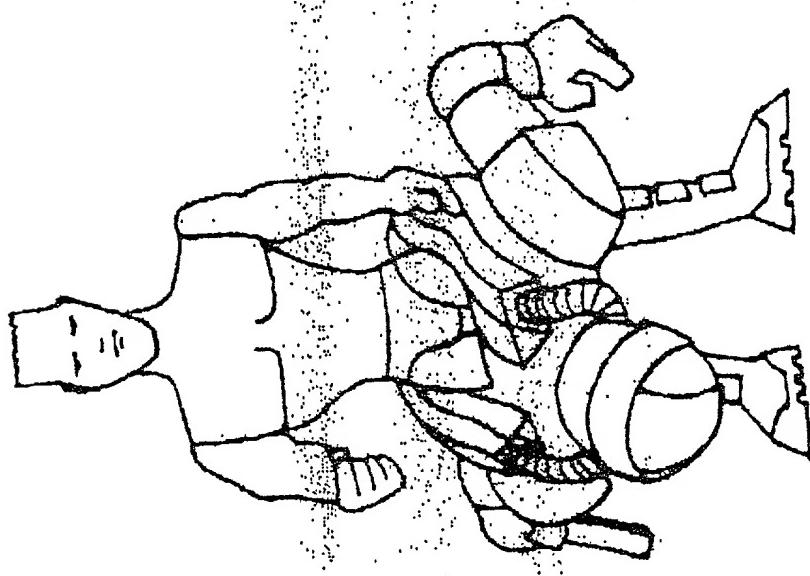


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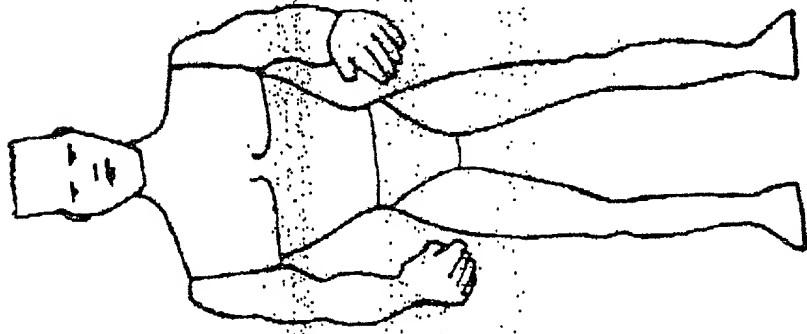
7C



7B



7A



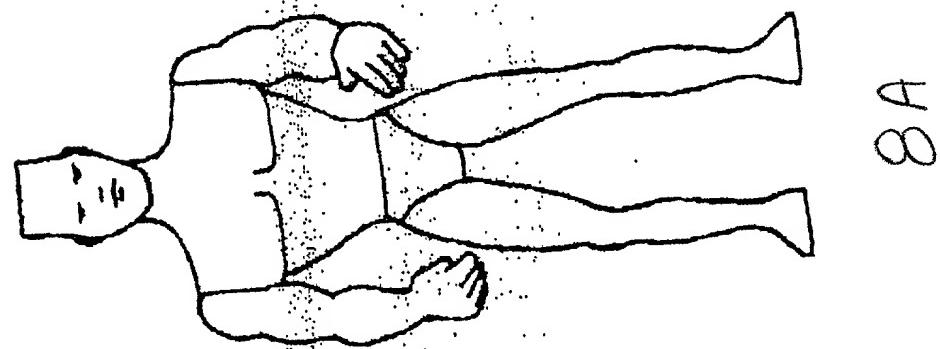
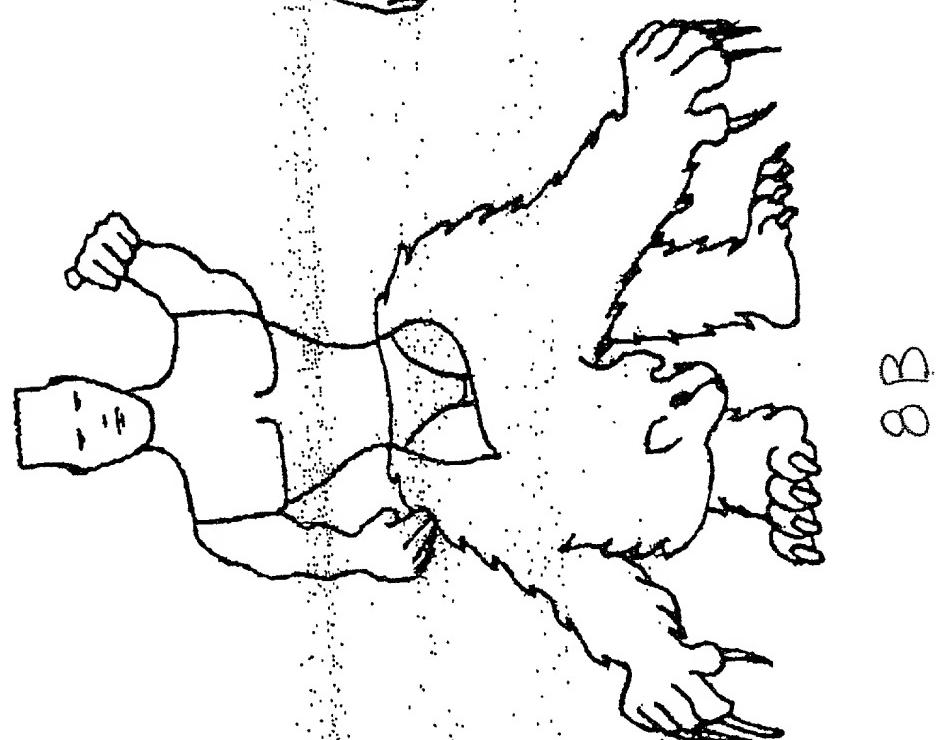
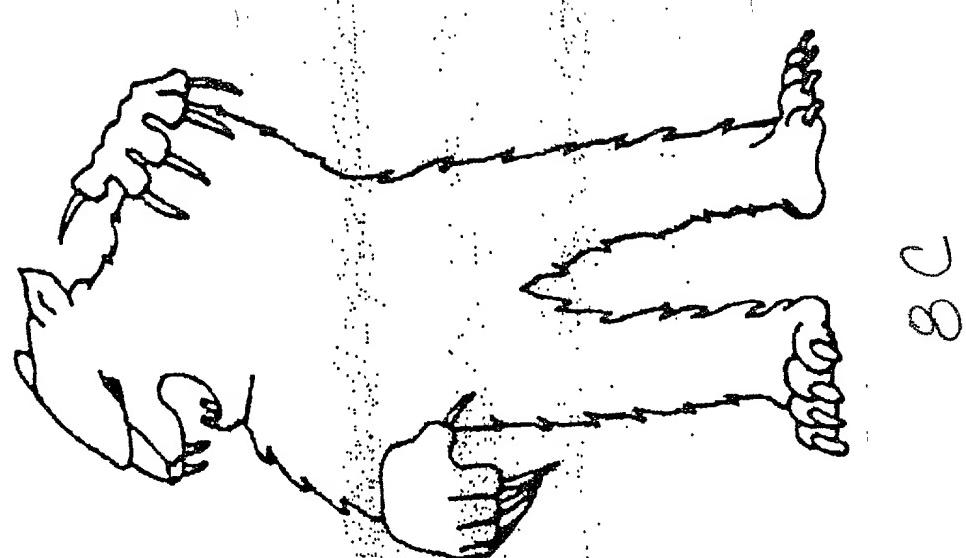


FIGURE 8 open open FIGURE 8 open open FIGURE 8 open

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**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

Declaration
Submitted
with Initial
Filing

OR

Declaration
Submitted after Initial
Filing (surcharge
(37 CFR 1.16 (e))
required)

Attorney Docket Number	1391-CIP-00
First Named Inventor	Casey William Norman
COMPLETE IF KNOWN	
Application Number	
Filing Date	November 13, 2000
Group Art Unit	
Examiner Name	

As a below named inventor, I hereby declare

My residence, post office address, and citizenship are as stated below next to my name

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

DOLL'S CLOTHING AND PLAY SET

the specification of which

(Title of the Invention)

is attached hereto

OR

was filed on (MM/DD/YYYY)

November 13, 2000

as United States Application Number or PCT International

Application Number

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(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

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9800856.8	Great Britain	1/15/98		

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[Page 1 of 2]

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U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)	
09/065,119	04/23/1998		
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Name	Registration Number	Name	Registration Number

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Direct all correspondence to: <input type="checkbox"/> Customer Number or Bar			<input type="checkbox"/> OR <input checked="" type="checkbox"/> Correspondence address below		
Name	Gerard J. Weiser				
Address	Schnader, Harrison, Segal & Lewis, LLP				
Address	1600 Market Street, 36th Floor				
City	Philadelphia	State	PA	ZIP	19103
Country	US	Telephon	(215) 751-2427		Fax (215) 751-2485

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Given Name (first and middle [if any])			Family Name or Surname				
Casey William			Norman				
Inventor's						Date	
Residence: City	London	State		Country	UK	Citizenship	British
Post Office Address	7 St. Maur Road						
Post Office Address							
City	London	State		ZIP	SW6 4DR	Country	United Kingdom

Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached

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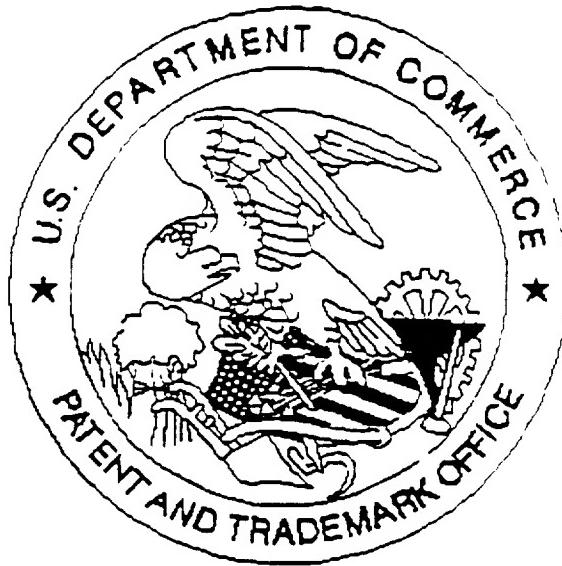
DECLARATION

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])			Family Name or Surname				
Torquil Patrick Alexander			Norman				
Inventor's						Date	
Residence: City	London	State		Country	UK	Citizenship	British
Post Office	62 Gloucester Crescent						
Post Office							
City	London NW1	State		ZIP	7EG	Country	United Kingdom
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])			Family Name or Surname				
Inventor's						Date	
Residence: City		State		Country		Citizenship	
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Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
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